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|------------------------|--------------------|
| Application Number     | 10/051,796         |
| Filing Date            | January 16, 2002   |
| First Named Inventor   | Yulun Wang         |
| Group Art Unit         | 3713               |
| Examiner Name          | Paula McCray       |
| Attorney Docket Number | 155695-0238 (P041) |

| Examiner Initials | Cite No. | U.S. Patent Document |           | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-------------------|----------|----------------------|-----------|---|--|---|
|                   |          | Number               | Kind Code |   |  |   |
| JLR               | 1.       | 6,309,397            |           | Julian, et al.                                  | 10-30-2001                                       |   |
|                   | 2.       | 6,206,903            |           | Ramans  | 03-27-2001                                       |   |
|                   | 3.       | 6,312,435            |           | Wallace, et al.                                 | 11-06-2001                                       |   |
|                   | 4.       | 6,331,181            |           | Tierney, et al.                                 | 12-18-2001                                       |   |
|                   | 5.       | 5,957,902            |           | Teves   | 09-28-1999                                       |   |
|                   | 6.       | 6,246,200            |           | Blumenkranz, et al.                             | 06-12-2001                                       |   |
|                   | 7.       | 5,906,630            |           | Anderhub et al.                                 | 05-25-1999                                       |   |
|                   | 8.       | 5,920,395            |           | Schultz   | 07-06-1999                                       |   |
|                   | 9.       | 5,951,587            |           | Qureshi et al.                                  | 09-14-1999                                       |   |
|                   | 10.      | 5,807,378            |           | Jensen et al.                                   | 09-15-1998                                       |   |
|                   | 11.      | 5,951,475            |           | Guezic et al.                                   | 09-14-1999                                       |   |
|                   | 12.      | 5,904,702            |           | Ek et al.                                       | 05-18-1999                                       |   |
|                   | 13.      | 5,911,036            |           | Wright et al.                                   | 06-08-1999                                       |   |
|                   | 14.      | 5,954,731            |           | Yoon  | 09-21-1999                                       |   |
|                   | 15.      | 5,887,121            |           | Funda et al.                                    | 03-23-1999                                       |   |
|                   | 16.      | 5,810,880            |           | Jensen et al.                                   | 09-22-1998                                       |   |
|                   | 17.      | 5,980,782            |           | Hershkowitz et al.                              | 11-09-1999                                       |   |
|                   | 18.      | 5,814,038            |           | Jensen et al.                                   | 09-29-1998                                       |   |
|                   | 19.      | 5,859,934            |           | Green   | 01-12-1999                                       |   |
|                   | 20.      | 6,346,072            |           | Cooper  | 02-12-2002                                       |   |
|                   | 21.      | 6,132,368            |           | Cooper  | 10-17-2000                                       |   |
|                   | 22.      | 5,984,932            |           | Yoon  | 11-16-1999                                       |   |
|                   | 23.      | 6,364,888            |           | Nieneyer, et al.                                | 04-02-2002                                       |   |
|                   | 24.      | 5,808,665            |           | Green   | 09-15-1998                                       |   |
|                   | 25.      | 5,766,126            |           | Anderson  | 06-16-1998                                       |   |
|                   | 26.      | 5,792,178            |           | Welch et al.                                    | 08-11-1998                                       |   |
|                   | 27.      | 6,371,952            |           | Madhani, et al.                                 | 04-16-2002                                       |   |
|                   | 28.      | 5,827,319            |           | Carlson, et al.                                 | 10-27-1998                                       |   |
|                   | 29.      | 5,792,135            |           | Madhani et al.                                  | 08-11-1998                                       |   |
|                   | 30.      | 5,807,377            |           | Madhani et al.                                  | 09-15-1998                                       |   |
|                   | 31.      | 5,797,900            |           | Madhani et al.                                  | 08-11-1998                                       |   |
|                   | 32.      | 5,855,583            |           | Wang et al.                                     | 01-05-1999                                       |   |
|                   | 33.      | 5,727,569            |           | Benetti et al.                                  | 03-17-1998                                       |   |
|                   | 34.      | 5,762,458            |           | Wang et al.                                     | 06-09-1998                                       |   |

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Examiner: Heleen Van Date Considered: 4/5/03

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|------------------------|--------------------|
| Application Number     | 10/051,796         |
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| Examiner Name          | Paula McCray       |
| Attorney Docket Number | 155695-0238 (P041) |

|     |           |                     |            |
|-----|-----------|---------------------|------------|
| 35. | 5,836,869 | Kudo et al.         | 11-17-1998 |
| 36. | 5,737,711 | Abe                 | 04-07-1998 |
| 37. | 5,696,574 | Schwaegerle         | 12-09-1997 |
| 38. | 5,844,824 | Newman et al.       | 12-01-1998 |
| 39. | 5,860,995 | Berkelaar           | 01-19-1999 |
| 40. | 5,825,982 | Wright et al.       | 10-20-1998 |
| 41. | 5,817,084 | Jensen              | 10-06-1998 |
| 42. | 5,800,423 | Jensen              | 09-01-1998 |
| 43. | 5,931,832 | Jensen              | 08-03-1999 |
| 44. | 6,080,181 | Jensen, et al.      | 06-27-2000 |
| 45. | 5,649,956 | Jensen et al.       | 06-22-1997 |
| 46. | 5,544,654 | Murphy et al.       | 08-13-1996 |
| 47. | 6,120,433 | Mizuno et al.       | 09-19-2000 |
| 48. | 5,636,259 | Khutoryansky et al. | 06-03-1997 |
| 49. | 6,226,566 | Funda, et al.       | 05-01-2001 |
| 50. | 5,696,837 | Green               | 12-09-1997 |
| 51. | 5,882,206 | Gillio              | 03-16-1999 |
| 52. | 5,749,362 | Funda et al.        | 05-12-1998 |
| 53. | 5,572,999 | Funda et al.        | 11-12-1996 |
| 54. | 5,718,038 | Takiar et al.       | 02-17-1998 |
| 55. | 5,562,503 | Ellman et al.       | 10-08-1996 |
| 56. | 5,876,325 | Mizuno et al.       | 03-02-1999 |
| 57. | 5,676,673 | Ferre et al.        | 10-14-1997 |
| 58. | 5,807,284 | Foxlin              | 09-15-1998 |
| 59. | 5,631,973 | Green               | 05-20-1997 |
| 60. | 5,490,117 | Oda et al.          | 02-06-1996 |
| 61. | 5,458,574 | Machold et al.      | 10-17-1995 |
| 62. | 5,443,484 | Kirsch, et al.      | 08-22-1995 |
| 63. | 5,813,813 | Daum et al.         | 09-29-1998 |
| 64. | 5,490,843 | Hildwein, et al.    | 02-13-1996 |
| 65. | 5,553,198 | Wang et al.         | 09-03-1996 |
| 66. | 5,422,521 | Neer et al.         | 06-06-1995 |
| 67. | 5,779,623 | Bonnell             | 07-14-1998 |
| 68. | 5,898,599 | Massie, et al.      | 04-27-1999 |
| 69. | 5,776,126 | Wilk et al.         | 07-07-1998 |
| 70. | 5,343,385 | Joskowicz et al.    | 08-30-1994 |
| 71. | 5,609,560 | Ichikawa et al.     | 03-11-1997 |
| 72. | 5,382,885 | Salcudean et al.    | 01-17-1995 |
| 73. | 5,434,457 | Josephs et al.      | 07-18-1995 |
| 74. | 5,458,547 | Teraoka et al.      | 10-17-1995 |
| 75. | 5,658,250 | Blomquist et al.    | 08-19-1997 |

Examiner: Joedyn RamDate Considered: 4/15/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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|---|---|----|----|--------------------------|--------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    |    | <b>Complete if known</b> |                    |
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| Sheet   | 3 | of | 10 | Attorney Docket Number   | 155695-0238 (P041) |

|      |           |                   |            |
|------|-----------|-------------------|------------|
| 76.  | 5,395,369 | McBrayer et al.   | 03-07-1995 |
| 77.  | 5,410,638 | Colgate et al.    | 04-25-1995 |
| 78.  | 6,106,511 | Jensen            | 08-22-2000 |
| 79.  | 5,417,701 | Holmes            | 05-23-1995 |
| 80.  | 5,512,919 | Araki             | 04-30-1996 |
| 81.  | 5,309,717 | Minch             | 05-10-1994 |
| 82.  | 5,320,630 | Ahmed             | 06-14-1994 |
| 83.  | 5,735,290 | Sterman et al.    | 04-07-1998 |
| 84.  | 5,451,924 | Massimino et al.  | 09-19-1995 |
| 85.  | 5,629,594 | Jacobus et al.    | 05-13-1997 |
| 86.  | 5,304,185 | Taylor            | 04-19-1994 |
| 87.  | 4,491,135 | Klein             | 01-01-1985 |
| 88.  | 5,397,323 | Taylor et al.     | 03-14-1995 |
| 89.  | 5,337,732 | Grundfest et al.  | 08-16-1994 |
| 90.  | 5,282,806 | Haber             | 02-01-1994 |
| 91.  | 5,515,478 | Wang              | 05-07-1996 |
| 92.  | 5,878,193 | Wang et al.       | 03-02-1999 |
| 93.  | 5,657,429 | Wang et al.       | 08-12-1997 |
| 94.  | 5,754,741 | Wang et al.       | 05-19-1998 |
| 95.  | 5,476,010 | Fleming et al.    | 12-19-1995 |
| 96.  | 5,257,999 | Slanetz, Jr.      | 11-02-1993 |
| 97.  | 5,417,210 | Funda et al.      | 05-23-1995 |
| 98.  | 5,749,362 | Funda et al.      | 05-12-1998 |
| 99.  | 5,305,427 | Nagata            | 04-19-1994 |
| 100. | 5,221,283 | Chang             | 06-22-1993 |
| 101. | 5,201,743 | Haber et al.      | 04-13-1993 |
| 102. | 5,339,799 | Kami et al.       | 08-23-1994 |
| 103. | 5,626,595 | Sklar et al.      | 05-06-1997 |
| 104. | 5,357,962 | Green             | 10-25-1994 |
| 105. | 5,345,538 | Narayannan et al. | 09-06-1994 |
| 106. | 5,271,384 | McEwen et al.     | 12-21-1993 |
| 107. | 6,259,806 | Green, et al.     | 07-10-2001 |
| 108. | 6,223,100 | Green             | 04-24-2001 |
| 109. | 5,228,429 | Hatano            | 07-20-1993 |
| 110. | 5,289,365 | Caldwell et al.   | 02-22-1994 |
| 111. | 5,230,623 | Guthrie et al.    | 07-27-1993 |
| 112. | 5,371,536 | Yamaguchi         | 12-06-1994 |
| 113. | 5,408,409 | Glassman et al.   | 04-18-1995 |
| 114. | 5,201,325 | McEwen et al.     | 4-13-1993  |
| 115. | 5,187,574 | Kosemura et al.   | 02-16-1993 |
| 116. | 5,184,601 | Putman            | 02-09-1993 |

Examiner: Jocelyn Pau Date Considered: 4/15/03

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|-------|---|----|----|
| Sheet | 4 | of | 10 |
|-------|---|----|----|

|      |           |                     |            |
|------|-----------|---------------------|------------|
| 117. | 5,182,641 | Diner et al.        | 01-26-1993 |
| 118. | 6,231,526 | Taylor, et al.      | 05-15-2001 |
| 119. | 6,024,695 | Taylor et al.       | 02-15-2000 |
| 120. | 6,201,984 | Funda, et al.       | 03-13-2001 |
| 121. | 5,630,431 | Taylor              | 05-20-1997 |
| 122. | 5,402,801 | Taylor              | 04-04-1995 |
| 123. | 5,950,629 | Taylor et al.       | 09-14-1999 |
| 124. | 5,445,166 | Taylor              | 08-29-1995 |
| 125. | 5,695,500 | Taylor et al.       | 12-09-1997 |
| 126. | 5,279,309 | Taylor et al.       | 01-18-1994 |
| 127. | 5,313,306 | Kuban et al.        | 05-17-1994 |
| 128. | 5,166,513 | Keenan et al.       | 11-24-1992 |
| 129. | 5,300,926 | Stoeckl             | 04-05-1994 |
| 130. | 5,388,987 | Badoz et al.        | 02-14-1995 |
| 131. | 5,368,015 | Wilk                | 11-29-1994 |
| 132. | 5,217,003 | Wilk                | 06-08-1993 |
| 133. | 5,506,912 | Nagasaki et al.     | 04-09-1996 |
| 134. | 5,145,227 | Monford, Jr.        | 09-08-1992 |
| 135. | 5,131,105 | Harrawood et al.    | 07-21-1992 |
| 136. | 4,996,975 | Nakamura            | 03-05-1991 |
| 137. | 5,086,401 | Glassman et al.     | 02-04-1992 |
| 138. | 5,299,288 | Glassman et al.     | 03-29-1994 |
| 139. | 5,431,645 | Smith et al.        | 07-11-1995 |
| 140. | 5,343,391 | Mushabac            | 08-30-1994 |
| 141. | 5,097,829 | Quisenberry         | 03-24-1992 |
| 142. | 5,175,694 | Amato               | 12-29-1992 |
| 143. | 5,368,428 | Hussey et al.       | 11-29-1994 |
| 144. | 5,091,656 | Gahn                | 02-25-1992 |
| 145. | 5,105,367 | Tsuchihashi et al.  | 04-14-1992 |
| 146. | 5,289,273 | Lang                | 02-22-1994 |
| 147. | 5,020,001 | Yamamoto et al.     | 05-28-1991 |
| 148. | 5,201,325 | McEwen et al.       | 04-13-1993 |
| 149. | 5,271,384 | McEwen et al.       | 12-21-1993 |
| 150. | 4,980,626 | Hess et al.         | 12-25-1990 |
| 151. | 4,965,417 | Massie              | 10-23-1990 |
| 152. | 5,098,426 | Sklar et al.        | 03-24-1992 |
| 153. | 5,123,095 | Papadopoulos et al. | 06-16-1992 |
| 154. | 4,930,494 | Takehana et al.     | 06-05-1990 |
| 155. | 5,109,499 | Inagami et al.      | 04-28-1992 |
| 156. | 4,883,400 | Kuban et al.        | 11-28-1989 |
| 157. | 5,251,127 | Raab                | 10-05-1993 |

Examiner: Jocelyn Rau Date Considered: 7/15/03

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|      |           |                       |            |
|------|-----------|-----------------------|------------|
| 158. | 5,305,203 | Raab                  | 04-19-1994 |
| 159. | 5,097,839 | Allen                 | 03-24-1992 |
| 160. | 4,969,890 | Sugita et al.         | 11-13-1990 |
| 161. | 5,442,728 | Kaufman et al.        | 08-15-1995 |
| 162. | 4,979,933 | Runge                 | 12-25-1990 |
| 163. | 4,979,949 | Matsen, III et al.    | 12-25-1990 |
| 164. | 5,403,319 | Matsen, III et al.    | 04-04-1995 |
| 165. | 5,236,432 | Matsen, III et al.    | 08-17-1993 |
| 166. | 5,571,110 | Matsen, III et al.    | 11-05-1996 |
| 167. | 5,046,375 | Salisbury Jr., et al. | 09-10-1991 |
| 168. | 5,065,741 | Uchiyama et al.       | 11-19-1991 |
| 169. | 4,989,253 | Liang et al.          | 01-29-1991 |
| 170. | 5,019,968 | Wang et al.           | 05-28-1991 |
| 171. | 4,949,717 | Shaw                  | 08-21-1990 |
| 172. | 4,954,952 | Ubhayakar et al.      | 09-04-1990 |
| 173. | 4,969,709 | Sogawa et al.         | 11-13-1990 |
| 174. | 4,815,450 | Patel                 | 03-28-1989 |
| 175. | 5,303,148 | Mattson et al.        | 04-12-1994 |
| 176. | 4,853,874 | Iwamoto et al.        | 08-01-1989 |
| 177. | 4,854,301 | Nakajima              | 08-08-1989 |
| 178. | 5,142,930 | Allen et al.          | 09-01-1992 |
| 179. | 4,815,006 | Andersson et al.      | 03-21-1989 |
| 180. | 4,794,912 | Lia                   | 01-03-1989 |
| 181. | 4,852,083 | Niehaus et al.        | 07-25-1989 |
| 182. | 4,762,455 | Coughlan et al.       | 08-09-1988 |
| 183. | 4,863,133 | Bonnell               | 09-05-1989 |
| 184. | 4,860,215 | Seraji                | 08-22-1989 |
| 185. | 4,837,734 | Ichikawa et al.       | 06-06-1989 |
| 186. | 4,791,940 | Hirschfeld et al.     | 12-20-1988 |
| 187. | 5,455,766 | Scheller et al.       | 10-03-1995 |
| 188. | 4,791,934 | Brunnett              | 12-20-1988 |
| 189. | 4,728,974 | Nio et al.            | 03-01-1988 |
| 190. | 5,078,140 | Kwoh                  | 01-07-1992 |
| 191. | 4,655,257 | Iwashita              | 04-07-1987 |
| 192. | 4,945,479 | Rusterholz et al.     | 07-31-1990 |
| 193. | 4,672,963 | Barken                | 06-16-1987 |
| 194. | 4,635,292 | Mori et al.           | 01-06-1987 |
| 195. | 4,676,243 | Clayman               | 06-30-1987 |
| 196. | 4,616,637 | Caspari et al.        | 10-14-1986 |
| 197. | 4,635,479 | Salisbury Jr., et al. | 01-13-1987 |
| 198. | 4,586,398 | Yindra                | 05-06-1986 |

Examiner: Jocelyn ParDate Considered: 4/15/03

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|      |           |                 |            |
|------|-----------|-----------------|------------|
| 199. | 4,604,016 | Joyce           | 08-05-1986 |
| 200. | 4,641,292 | Tunnell et al.  | 02-03-1987 |
| 201. | 4,503,854 | Jako            | 03-12-1985 |
| 202. | 4,633,389 | Tanaka et al.   | 12-30-1986 |
| 203. | 4,624,011 | Watanabe et al. | 11-18-1986 |
| 204. | 4,517,963 | Michel          | 05-21-1985 |
| 205. | 4,456,961 | Price et al.    | 06-26-1984 |
| 206. | 4,401,852 | Noso et al.     | 08-30-1983 |
| 207. | 4,523,884 | Clement et al.  | 06-18-1985 |
| 208. | 4,460,302 | Moreau et al.   | 07-17-1984 |
| 209. | 4,367,998 | Causer          | 01-11-1983 |
| 210. | 4,474,174 | Petruzzi        | 10-02-1984 |
| 211. | 4,221,997 | Flemming        | 09-09-1980 |
| 212. | 4,058,001 | Waxman          | 11-15-1977 |
| 213. | 4,128,880 | Cray, Jr.       | 12-05-1978 |
| 214. | 5,196,688 | Hesse et al.    | 03-23-1993 |
| 215. | 3,280,991 | Melton et al.   | 10-25-1966 |
| 216. | 3,171,549 | Orloff          | 03-02-1965 |
| 217. | 977,825   | Murphy          | 12-06-1910 |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials | Cite<br>No. | Foreign Patent Document |                |              | Name of Patentee or<br>Applicant of Cited<br>Document | Date of Publication<br>of Cited Document<br>MM-DD-YYYY | Pages, Columns,<br>Lines, Where<br>Relevant<br>Passages or<br>Relevant Figures<br>Appear |
|----------------------|-------------|-------------------------|----------------|--------------|---|--|--|
|                      |             | Office                  | Number         | Kind<br>Code |   |  |  |
| OK                   | 218..       |                         | WO 98/25666    |              | Cooper et al.   | 06-18-1998   |  |
|                      | 219..       |                         | WO 97/15240    |              | Brant et al.  | 05-01-1997   |  |
|                      | 220..       |                         | DE 4310842 C2  |              | Gralowicz et al.                                      | 01-25-1995   |  |
|                      | 221..       |                         | WO 94/26167    |              | Jensen  | 11-24-1994   |  |
|                      | 222..       |                         | WO 94/18881    |              | Sterman et al.  | 09-01-1994   |  |
|                      | 223..       |                         | WO 92/20295    |              | Koivukangas   | 11-26-1992   |  |
|                      | 224..       |                         | DE U 9204118.3 |              | Zeiss   | 07-02-1992   |  |
|                      | 225.        |                         | EP 0776738 A2  |              | Green   | 06-04-1997   |  |
|                      | 226..       |                         | WO 93/13916    |              | Green   | 07-22-1993   |  |
|                      | 227.        |                         | WO 91/04711    |              | Henrion et al.  | 04-18-1991   |  |
|                      | 228..       |                         | EP 0424687 A1  |              | Baum et al.   | 05-02-1991   |  |
|                      | 229..       |                         | EP 0239409 A1  |              | Funakubo et al.                                       | 09-30-1987   |  |

Examiner: *for dym Kan*Date Considered: *4/15/03*

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| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |          |  |
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| Examiner Initials                                 | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.            |
| JLR   | 230.     | "Endocorporeal Surgery Using Remote Manipulators" (NED S. RASOR and J.W. SPICKLER) Remotely Manned Systems – Exploration and Operation in Space, California Institute of Technology 1973   |
|   | 231.     | "A Survey Study of Teleoperators, Robotics, and Remote Systems Technology" (ARTHUR D. ALEXANDER, III) Remotely Manned Systems – Exploration and Operation in Space, California Institute of Technology 1973  |
|   | 232.     | "Impacts of Telemation on Modern Society" (ARTHUR D. ALEXANDER, III), On the Theory and Practice of Robots and Manipulators Volume II, 1974  |
|   | 233.     | Transcript of a video presented by SRI at the 3rd World Congress of Endoscopic Surgery in Bordeaux on June 18-20, 1992, in Washington on April 9, 1992, and in San Diego, CA on June 4-7, 1992 entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine" |
|   | 234.     | Statutory Declaration of Dr. Philip S. Green, presenter of the video entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine"   |
|   | 235.     | Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery" (P. GREEN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992   |
|   | 236.     | Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery", (P. GREEN et al.) given at "Medicine meets virtual reality" symposium in San Diego, June 4-7, 1992   |
|   | 237.     | Abstract of a presentation "Camera Control for Laparoscopic Surgery by Speech-Recognizing Robot: Constant Attention and Better Use of Personnel" (COLIN BESANT et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992                 |
|   | 238.     | "A Literature Review: Robots in Medicine" (B. PREISING et al.) IEEE June 1991  |
|   | V        | 239.   |

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|---|---|----|----|------------------------|--------------------|
|   |   |    |    | Application Number     | 10/051,796         |
|   |   |    |    | Filing Date            | January 16, 2002   |
|   |   |    |    | First Named Inventor   | Yulun Wang         |
|   |   |    |    | Group Art Unit         | 3713               |
|   |   |    |    | Examiner Name          | Paula McCray       |
| Sheet   | 8 | of | 10 | Attorney Docket Number | 155695-0238 (P041) |

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|  | 240. | "Taming the Bull: Safety in a Precise Surgical Robot" (RUSSELL H. TAYLOR et al.), IEEE 1991   |
|  | 241. | Abstract of a presentation "Design Considerations of a New Generation Endoscope Using Robotics and Computer Vision Technology" (S.M. KRISHNAN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 |
|  | 242. | Abstract of a presentation "3-D Vision Technology Applied to Advanced Minimally Invasive Surgery Systems" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992   |
|  | 243. | "Analysis of the Surgeon's Grasp for Telerobotic Surgical Manipulation" (FRANK TENDICK and LAWRENCE STARK), IEEE 1989   |
|  | 244. | "Kinematic Control and Visual Display of Redundant Teleoperators" (HARDI DAS et al.), IEEE 1989   |
|  | 245. | "A New System for Computer Assisted Neurosurgery" (S. LAVALLEE), IEEE 1989  |
|  | 246. | "An Advanced Control Micromanipulator for Surgical Applications" (BEN GAYED et al.), Systems Science Vol. 13 1987   |
|  | 247. | "Force Feedback-Based Telemicromanipulation for Robot Surgery on Soft Tissues" (A.M. SABATINI et al.), IEEE 1989  |
|  | 248. | "Six-Axis Bilateral Control of an Articulated Slave Manipulator Using a Cartesian Master Manipulator" (MASAO INOUE), Advanced Robotics 1990   |
|  | 249. | "On a Micro-Manipulator for Medical Application - Stability Consideration of its Bilateral Controller" (S. MAJIMA et al.), Mechatronics 1991  |
|  | 250. | "Anthropomorphic Remote Manipulator", NASA Tech Briefs 1991   |
|  | 251. | "Controlling Remote Manipulators through Kinesthetic Coupling" (A.K. BEJCZY), Computers in Mechanical Engineering 1983  |
|  | 252. | "Design of a Surgeon-Machine Interface for Teleoperated Microsurgery" (STEVE CHARLES M.D. et al.), IEEE 1989  |

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| Sheet   | 9 | of | 10 | Attorney Docket Number   | 155695-0238 (P041) |

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|  | 253. | "A Robot in an Operating Room: A Bull in a China Shop" (J.M. DOLAN et al.), IEEE 1987   |
|  | 254. | Abstract of a presentation "Concept and Experimental Application of a Surgical Robotic System the Steerable MIS Instrument SMI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 |
|  | 255. | Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992, entitled "Session 15/1"   |
|  | 256. | Abstract of a presentation "A Pneumatic Controlled Sewing Device for Endoscopic Application the MIS Sewing Instrument MSI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992      |
|  | 257. | Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/2"  |
|  | 258. | Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/4"  |
|  | 259. | Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/5"  |
|  | 260. | "Properties of Master-Slave Robots" (C. Vibet), Motor-con 1987  |
|  | 261. | "A New Microsurgical Robot System for Corneal Transplantation" (NORIYUKI TEJIMA), Precision Machinery 1988  |
|  | 262. | "Human/Robot Interaction via the Transfer of Power and Information Signals - Part I: Dynamics and Control Analysis" (H. KAZEROONI), IEEE 1989   |
|  | 263. | "Human/Robot Interaction via the Transfer of Power and Information Signals - Part II: An Experimental Analysis" (H. KAZEROONI), IEEE 1989   |
|  | 264. | "Power and Impedance Scaling in Bilateral Manipulation" (J. EDWARD COLGATE), IEEE 1991  |
|  | 265. | "S.M.O.S.: Stereotaxical Microtelemanipulator for Ocular Surgery" (AICHA GUERROUAD and PIERRE VIDAL), IEEE 1989   |

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| Sheet   | 10 | of | 10 | Attorney Docket Number   | 155695-0238 (P041) |

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|  | 266. | "Motion Control for a Sheep Shearing Robot" (JAMES P. TREVELYAN et al.), Proceedings of the 1st International Symposium on Robotics Research, MIT, Cambridge, Massachusetts, USA, 1983 |
|  | 267. | "Robots and Telechairs" (M.W. THRING), Wiley 1983  |
|  | 268. | Industrial Robotics (GORDON M. MAIR), Prentice Hall 1988 (pp. 41-43, 49-50, 54, 203-209 enclosed)  |
|  | 269. | "Student Reference Manual for Electronic Instrumentation Laboratories" (WOLF et al.), Prentice Hall, New Jersey 1990, pp. 498 and 499  |
|  | 270. | "Surgery in Cyberspace" (TAUBES), Discover Magazine, December 1994   |

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| Group Art Unit         | Unknown          |
| Examiner Name          | Unknown          |
| Attorney Docket Number | 155695-0238      |

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**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials | Cite<br>No. | U.S. Patent Document |              | Name of Patentee or<br>Applicant of Cited Document | Date of Publication<br>of Cited Document<br>MM-DD-YYYY | Pages, Columns,<br>Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|----------------------|-------------|----------------------|--------------|--|--|--|
|                      |             | Number               | Kind<br>Code |  |  |  |
| <i>UR</i>            | 1.          | 6,490,490            |              | Uchikubo et al.                                    | 12-03-2002   |  |
|                      | 2.          |                      |              |  |  |  |
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